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The Development of Medication Management Guidelines for Patients with Disease Contraindication

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Introduction: Preventing the use of medications where there is the potential for serious drug-disease interactions (contraindications) is essential to ensure patient safety. Information regarding the drug-disease contraindication is critical in deciding the appropriate drug therapy for patients with certain medical conditions.

Methods: Contraindicated diseases for 1,158 drug compounds that are approved in Korea were constructed (Drug-Disease Interaction Database). Drugs that are contraindicated for 85 most common diseases were also constructed based on information provided by the product information (Disease-Drug Interaction Database). The information provided by each product information was compared and verified with the information included in the database of Clinical Pharmacology, American Hospital Formulary Service Drug Information® (AHFS DI), and CCIS;Micromedex.

Results: Drug-Disease Interaction Database based on product information of 1,158 drugs were developed. The reasons why such drug-disease interaction occurs were also provided to help healthcare professionals decision process.

Conclusions: These database can help the healthcare professionals to make accurate and reliable decision regarding the drug therapy. It can also assist pharmacists to perform the appropriate drug utilization review (DUR) of the prescription. Accordingly, the database created by this study can contribute to the safe and effective drug therapy and minimize errors due to drug-disease contraindications. For better utilization of the database, continuous update of the information is required.